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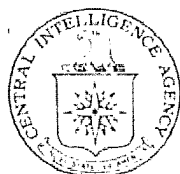
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NPIC/R-241/64
April 1964

PHOTOGRAPHIC INTERPRETATION REPORT

Declassification review by NIMA/DOD

ICBM COMPLEX,
YOSHKAR-OLA, USSR



CIA



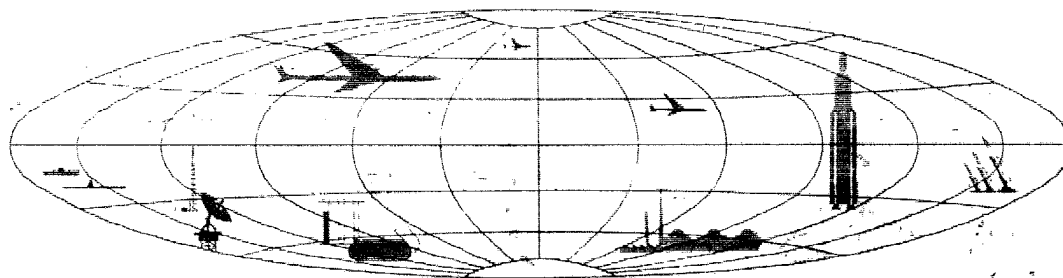
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PHOTOGRAPHIC INTERPRETATION REPORT

ICBM COMPLEX,
YOSHKAR-OLA, USSR

NPIC/R-241/64

April 1964

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Launch Site A (TDI Site 1)	56-35N 48-10E
Launch Site B (TDI Site 2)	56-35N 48-18E
Launch Site C (TDI Site 3)	56-32N 48-26E
Launch Site D (TDI Site 4)	56-30N 48-20E
Launch Site E (TDI Site 5)	56-33N 48-13E
Launch Site F (TDI Site 6)	56-36N 48-26E

25X1A

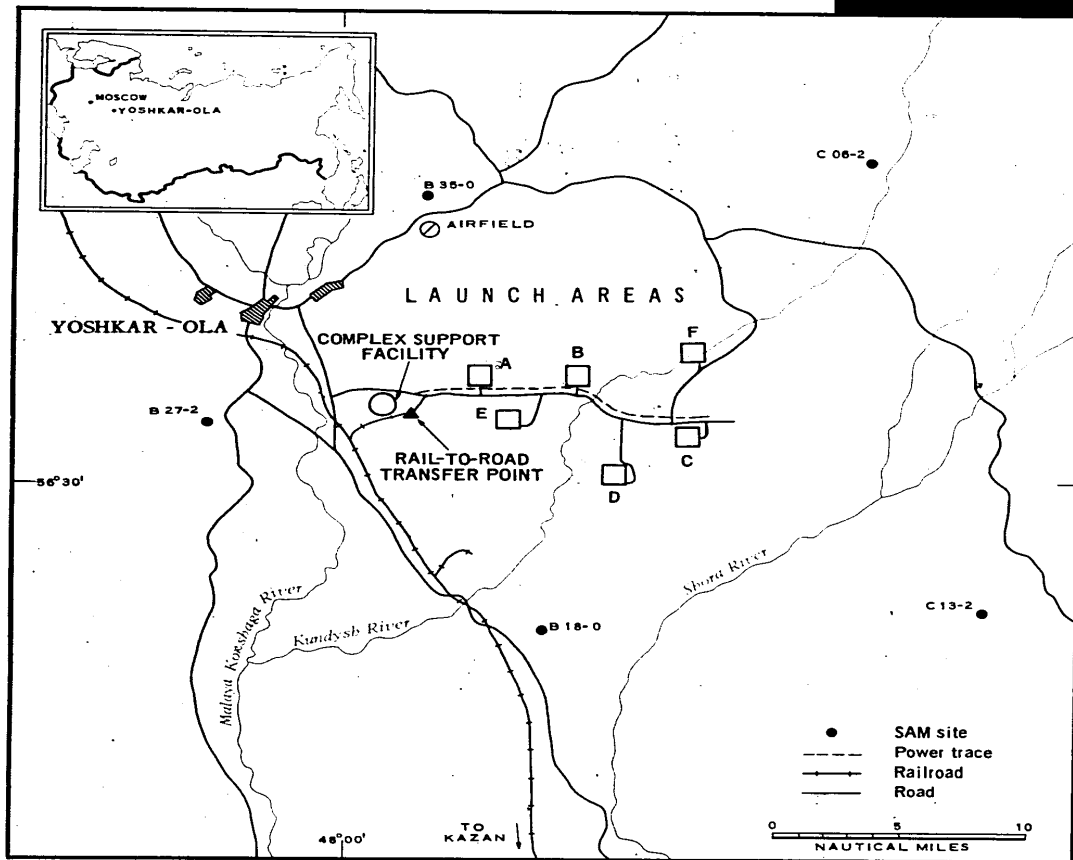


FIGURE 1. LOCATION OF YOSHKAR-OLA ICBM COMPLEX.

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ICBM COMPLEX, YOSHKAR-OLA, USSR

INTRODUCTION

The Yoshkar-Ola ICBM Complex is east-southeast of the town of Yoshkar-Ola (Figure 1). It is situated in a forested area surrounded by agricultural land. The terrain varies from generally flat to slightly rolling with an average elevation of 500 feet above sea level.

The complex consists of a complex support facility, a rail-to-road transfer point, and six launch areas, three Type IIB and three Type IID. Orientation of the launch sites is 335 degrees [REDACTED]. Wide-radius turns are characteristic of all curves

and road junctions throughout the complex road system. The complex support facility and Launch Area A were first identified in [REDACTED]

Subsequent missions over the complex revealed an additional launch area and the rail-to-road transfer point in [REDACTED] two launch areas in [REDACTED] and two more in [REDACTED]

Five SAM sites have been identified around the complex:

Yoshkar-Ola ICBM Complex SAM Site B18-0,
Yoshkar-Ola ICBM Complex SAM Site B27-2,
Yoshkar-Ola ICBM Complex SAM Site B35-0,
Yoshkar-Ola ICBM Complex SAM Site C06-2,
Yoshkar-Ola ICBM Complex SAM Site C13-2,

COMPLEX SUPPORT FACILITY

The complex support facility (56-34N 48-03E) is about 7 nautical miles (nm) southeast of the town of Yoshkar-Ola at the western extremity of the forested area containing the complex. It is rail and road served, respectively, from the Yoshkar-Ola/Kazan rail line and the highway running south from Yoshkar-Ola. The support facility consists of a railhead and storage area and three housing areas, two of which also contain administration-type buildings (Figure 2). No security measures are evident.

The railhead and storage area contains 4 rail spurs, open storage, about 45 buildings, and an equipment pool. The four rail spurs are each approximately 2,500 feet long and

evenly spaced 550 feet apart. There are 15 various-sized buildings and open storage between the rail spurs. Most of the remaining buildings, 10 of which are over 100 feet long, the equipment pool, and a probable open storage area are adjacent to the rail spur on the southwest side. A road- and rail-served probable POL storage area is south of the rail spurs.

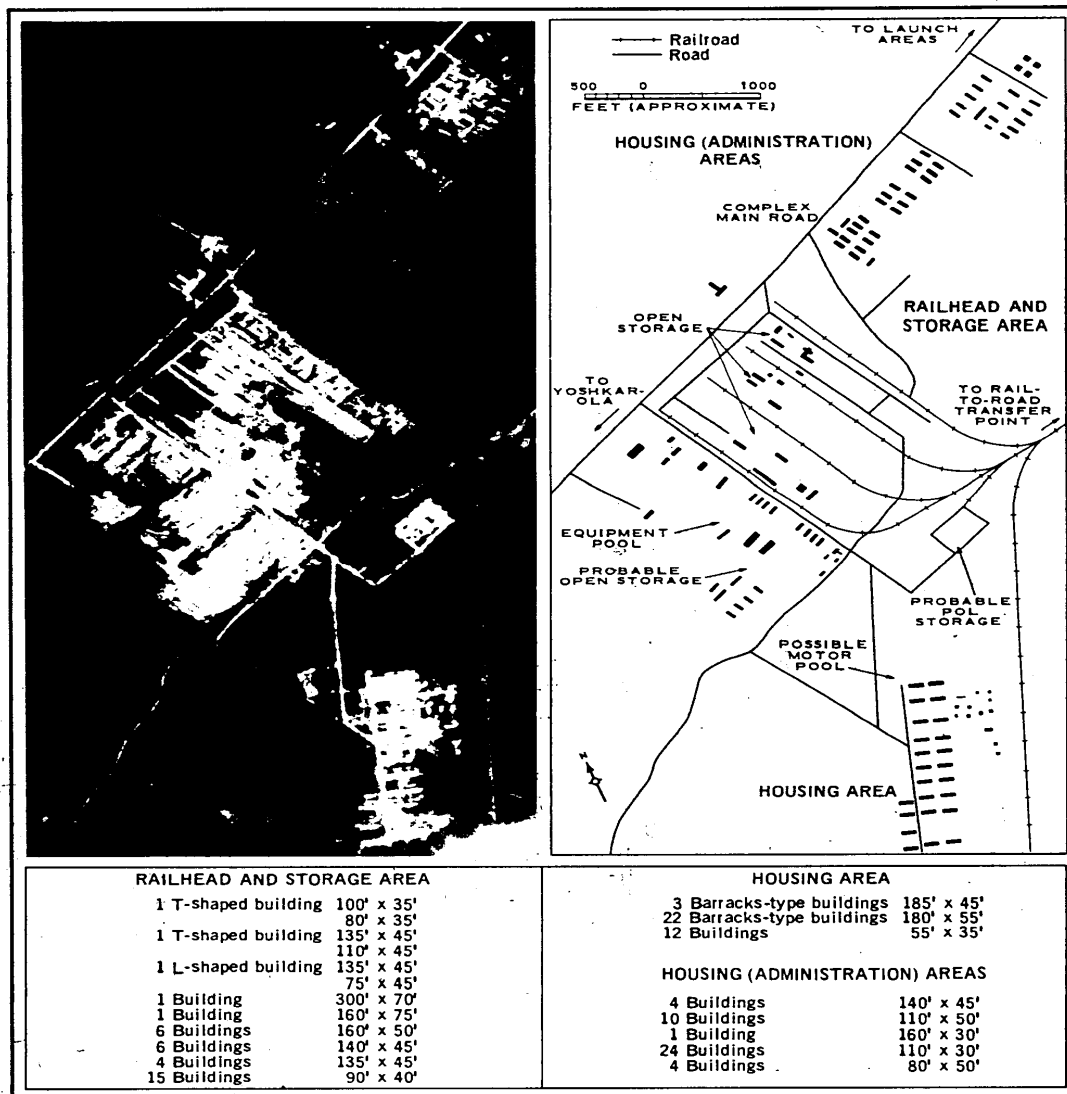
One of the housing areas is situated south of the railhead and storage area and west of the main rail spur serving the complex. This area contains 25 barracks-type buildings and 12 smaller buildings which are possibly single-family housing units. A possible motor pool is situated at the north end of the area. The

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FIGURE 2. COMPLEX SUPPORT FACILITY.

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other two areas, separated only by a small strip of woods, are on the south side of the complex main road to the northeast of the railhead and storage area. One area contains 24 buildings, the other 19. Barracks-type buildings are predominant in both areas.

The only significant change apparent in the railhead and storage area since it was first seen in [REDACTED] is the

addition of six large buildings on the southwest side. These first appeared in [REDACTED] Two of the three housing areas were cloud covered when the area was first seen in [REDACTED] However, they were all present in [REDACTED] The two areas on the south side of the complex main road have been expanded since that time by the addition of more buildings.

RAIL-TO-ROAD TRANSFER POINT

The rail-to-road transfer point (56-33N 48-04E) is about 2 nm east of the complex support facility. It is in a densely wooded area and no security measures are apparent. It is a completed loop-type transfer point with a minimum of facilities (Figure 3). Only five buildings are present.

[REDACTED] the rail spur extended in the direc-

tion of the transfer point but the facility itself was not present. On photography of [REDACTED] ground scarring was apparent but poor image quality precluded detailed interpretation.

[REDACTED] the transfer point was apparently complete and has shown no significant change since that time.

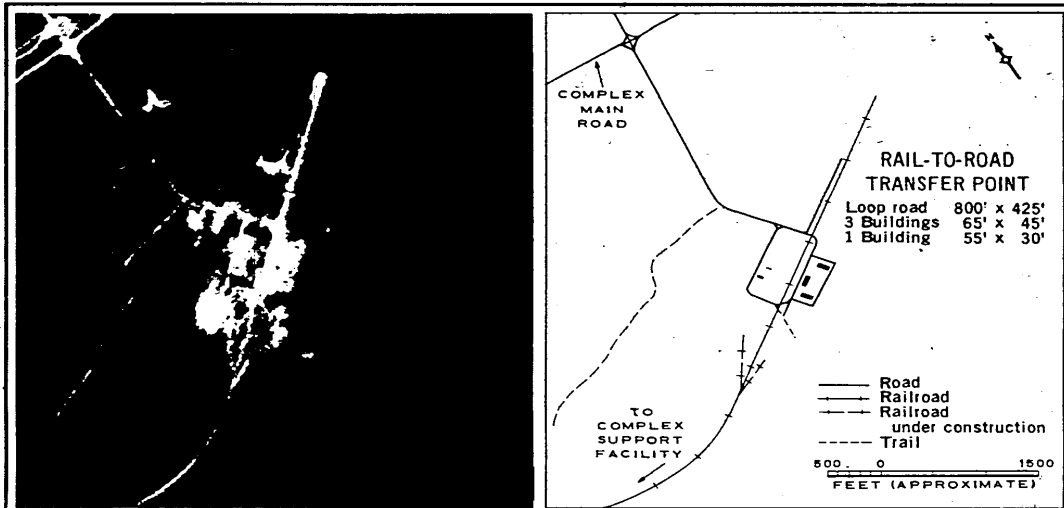


FIGURE 3. RAIL-TO-ROAD TRANSFER POINT.

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LAUNCH AREA A

Launch Area A consists of a completed Type IIB launch site and a site support facility (Figure 4). It is located about 4 nm east

of the complex support facility in a heavily wooded area that was cleared for the site. TALENT photography of [REDACTED]

25X1D

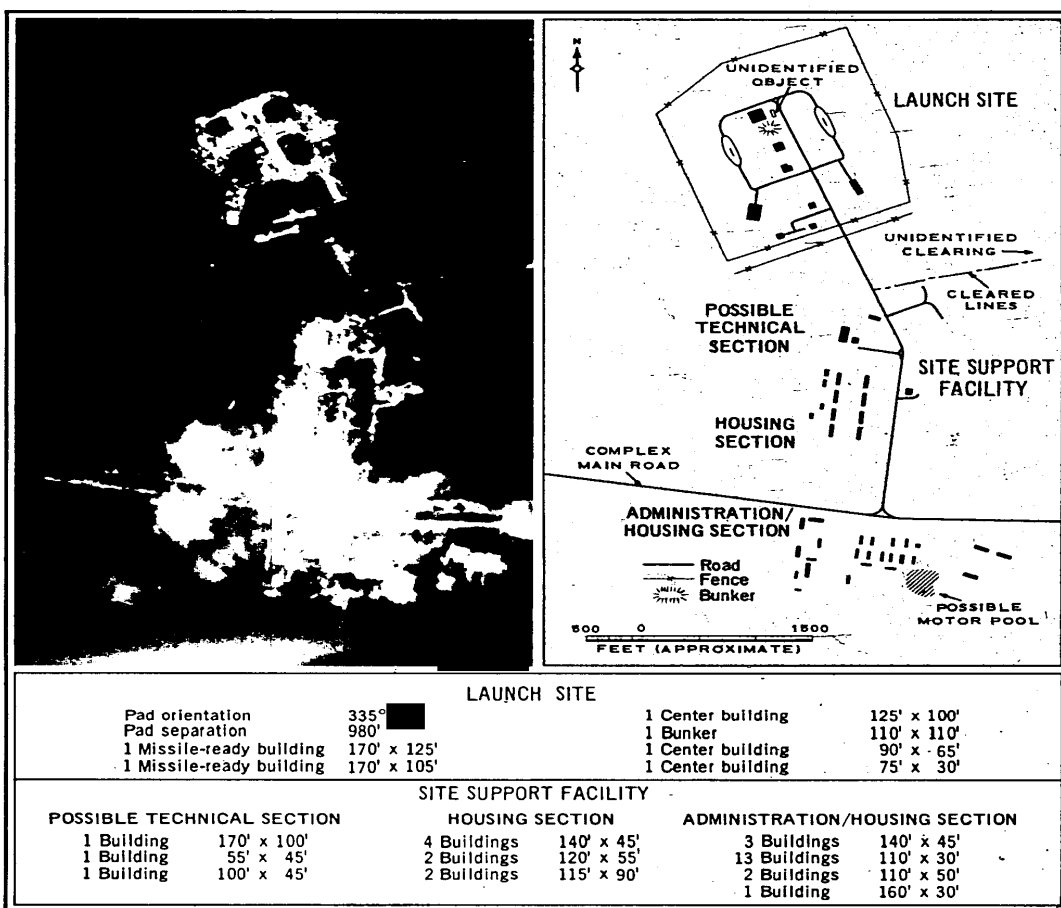


FIGURE 4. LAUNCH AREA A.

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25X1D [redacted] showed no activity in the area.
25X1D First identified on photography of [redacted]
25X1D [redacted] it was considered to have been
25X1D complete in [redacted]

The launch site has three buildings and a bunker on the left side of the offset center service road. At the right front of the bunker is an unidentified linear object. An erector/shelter is apparent on each pad. A missile-ready building is directly behind and in line with the right pad. The missile-ready building behind the left pad is canted outward about 30 degrees. [redacted]

25X9 [redacted]

25X9 [redacted]

The site support facility is situated south of the launch site and consists of an adminis-

tration/housing section, a housing section, and a possible technical section. No security measures are apparent. The largest of the sections is the administration/housing section, on the south side of the complex main road at its junction with the site access road. This section contains a possible motor pool and 22 buildings. Three large buildings are just east of this section. The housing section is on the west side of the access road. It contains 12 buildings, 6 of which are probably barracks. Across the access road is a single road-served building. The possible technical section is about 1,000 feet south of the launch site on the west side of the access road. It is road served and has wide-radius turns at the junction with the access road. There are one small and two large buildings in this section. On the opposite side of the access road are some cleared lines in the wooded area leading to an unidentified clearing.

LAUNCH AREA B

Launch Area B consists of a completed Type IIB launch site and a site support facility (Figure 5). It is located about 7.5 nm east of the complex support facility in a heavily wooded area that had to be cleared for construction. Activity at the launch area was first seen in [redacted]. There was no activity in the area in [redacted]. The launch site was considered complete in [redacted].

25X1D

25X1D

25X1D

25X1D

It is a typical Type IIB site, enclosed by a double security fence that measures approximately 2,000 feet north-south and 2,200 feet east-west. A possible erector/shelter is present on each pad. One missile-ready building canted outward about 30 degrees is situated behind the left launch pad. To the left of the

offset center service road are two unidentified objects and two buildings, one of which is bunkered. [redacted]

25X9

25X9

The site support facility is situated south of the launch site and contains an administration/housing section, a possible technical section, a motor/equipment pool, and an unidentified section. The administration/housing section contains about 30 buildings. Nine of these

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are barracks-type buildings; 10 others, including a plus-shaped building, may be administrative; the rest are small miscellaneous buildings. The possible technical section contains five buildings, one of which is served by a road from the access road characterized by wide-radius turns at the junction. The motor/

equipment pool and the unidentified section may be features of the complex rather than directly associated with this site support facility. The unidentified section contains 23 buildings; 11 could be either barracks or storage buildings and the rest are small miscellaneous structures.

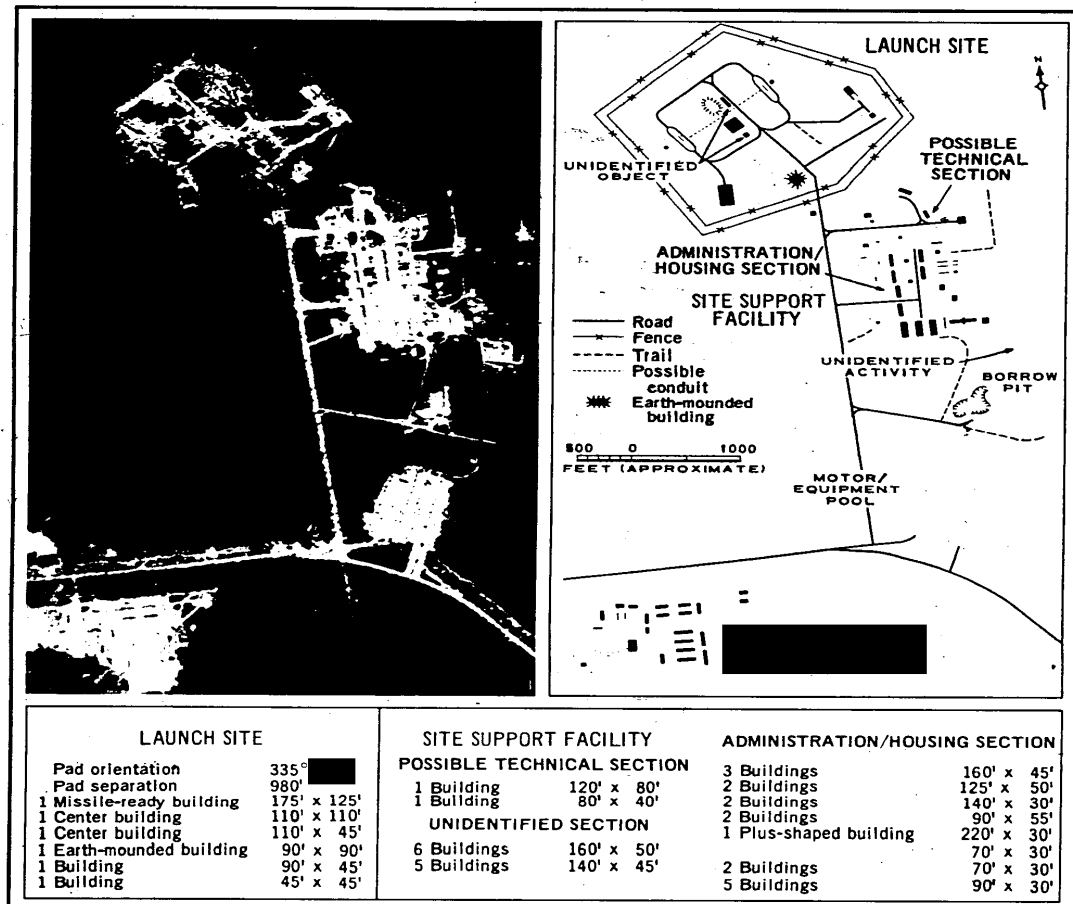


FIGURE 5. LAUNCH AREA B.

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LAUNCH AREA C

Launch Area C has a completed Type IIB launch site and a site support facility (Figure 6). It is situated in a heavily wooded area about 13 nm east of the complex support facility. The area was first seen in [REDACTED] and can be negated as of [REDACTED] when only an extension of the complex main road beyond Launch

Area B was present. It was considered complete in [REDACTED]

The launch site is enclosed by a single fence but there is an open ditch just outside the fence on all four sides. This ditch appears to drain into a small pond at the northwest corner of the site. The enclosed area measures 1,825 feet in the north-south direction and

25X1D

25X1D
25X1D
25X1D
25X1D

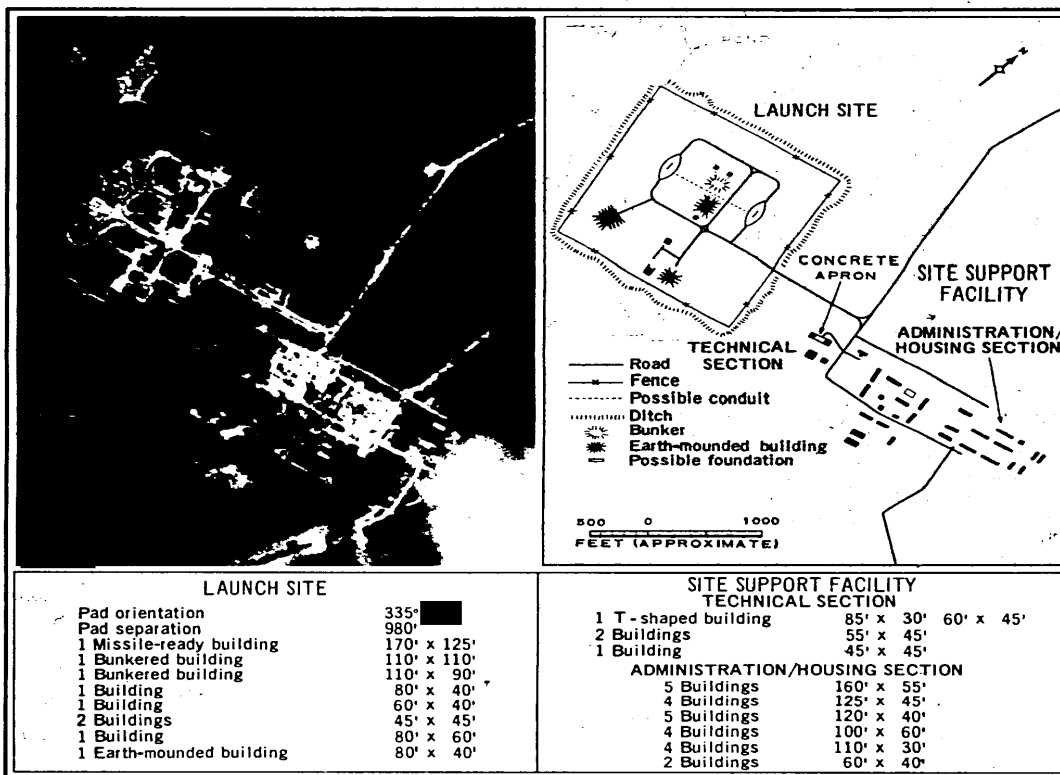


FIGURE 6. LAUNCH AREA C.

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25X1D
25X1D

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1,930 feet in the east-west. The single missile-ready building behind the left pad is canted outward about 25 degrees. It is apparently earth mounded. Five buildings are on the left side of the offset center service road. One of these is bunkered and another is earth mounded. In front of the bunkered building are two small square buildings. To the rear of the earth-mounded building is another small building. All five of these are interconnected by what may be cable conduits. The same type of conduit connects the bunker with both pads. Details of the pad area are vague on [REDACTED]

25X1D

25X1D

[REDACTED] Although other items in the launch site stand out clearly, the pads show dark and their outlines are not apparent. A possible erector/shelter is apparent on each pad. To the rear of the site is an earth-mounded building. It is road served by an extension of the

center service road. Wide-radius turns are apparent at the road junction. [REDACTED]

25X9

25X9

The site support facility is situated east of the launch site. It consists of an administration/housing section and a technical section. The administration/housing section contains about 27 buildings and what appears to be the foundation for another. The technical section has five buildings, one of which is T-shaped. What appears to be a concrete apron is between two of the buildings.

LAUNCH AREA D

Launch Area D consists of a completed Type IID launch site and a site support facility (Figure 7). It is situated in a heavily wooded area about 11 nm east-southeast of the complex support facility. Activity at the area was first apparent in [REDACTED]

25X1D

25X1D

25X1D

25X1D

[REDACTED] There were no signs of construction in the area in [REDACTED]. The launch site was considered complete in [REDACTED]. No security measures can be identified.

The launch site is apparently either an early version of the IID type or it may have been started as a IIB site and later changed.

25X1D

25X1D

Pad details are vague on [REDACTED]. [REDACTED] the pad area is dark and does not have the clear-cut white image of concrete. Several objects are apparent on the pads; they may be the erectors/shelters and some vehicles, but no positive identification is possible. There is

a road-served probable building outboard of each pad. A clearing is apparent for a forward loop road connecting the pads, but the road does not appear to be surfaced. Also, there is no offset center service road running from the back of the site through to the front. There are two canted buildings inboard of each pad: the two at the right appear much smaller than the standard canted building. Three other buildings are situated near the center of the site; one of the buildings, possibly earth mounded, is connected to each pad by what may be cable conduits. A single earth-mounded missile-ready building is to the rear of the left pad and is canted about 30 degrees outward. [REDACTED]

25X9

The site support facility is situated about

2,000 feet north of the launch site, most of it on the east side of the access road. It consists of an administration and housing section, a possible technical section, and an unidentified section on the west side of the access road. The administrative part of the administration and housing section contains five buildings, one of which is U-shaped. The adjoining housing part of the section contains

16 buildings, 8 of which appear to be barracks. The possible technical section contains only two small buildings and a road-served concrete apron. The radius of the turns at the junction with the access road is slightly increased, but not as much as at turns within the launch site. The unidentified section contains one U-shaped building within a generally rectangular pattern of roads or trails.

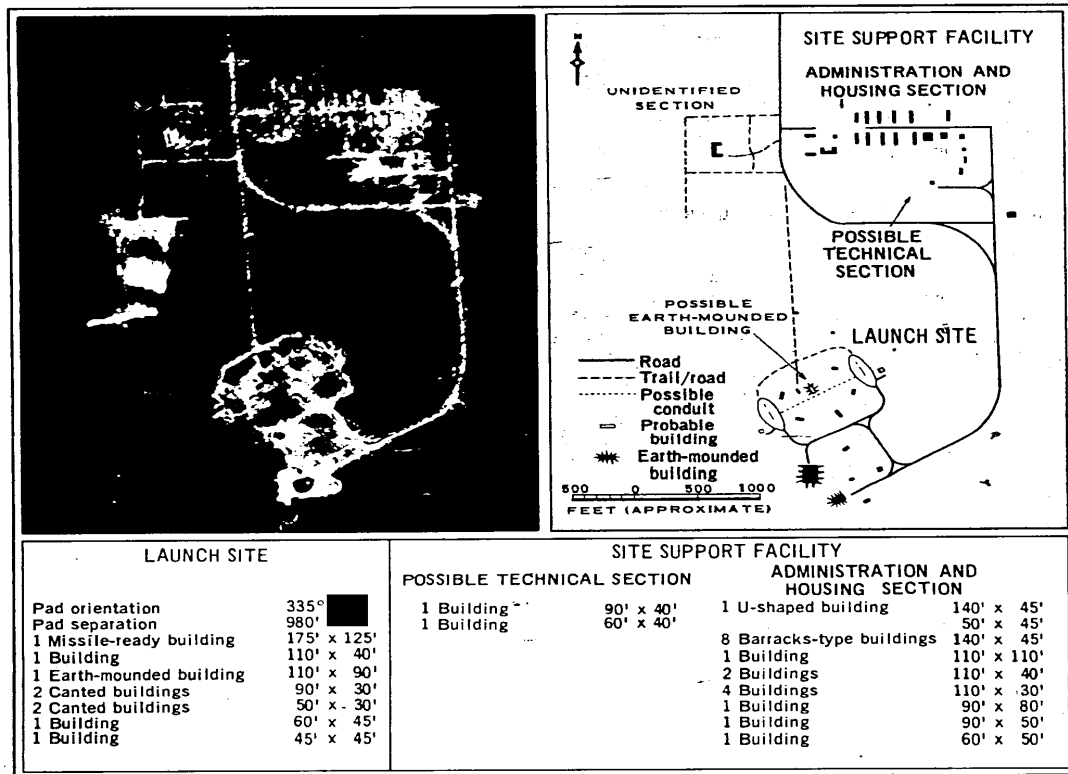


FIGURE 7. LAUNCH AREA D.

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LAUNCH AREA E

Launch Area E is situated in a heavily wooded area 6 nm east of the complex support facility on the south side of the complex main road. It consists of a Type III launch site and a site support facility (Figure 8). There was no evidence of the launch site in [REDACTED]

[REDACTED] although construction of the site support facility was apparent. First evidence of the launch site was in [REDACTED]. At this time the site was in a mid-stage of construction. [REDACTED] the site was in a late stage of construction.

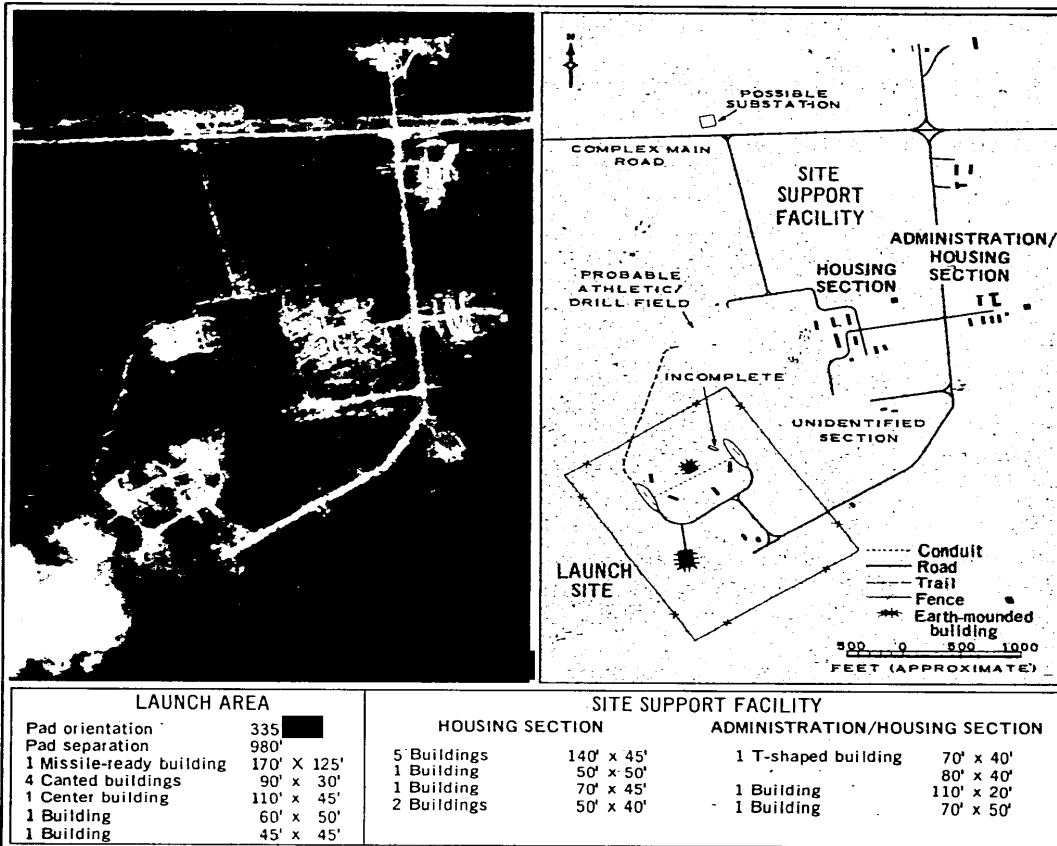


FIGURE 8. LAUNCH AREA E.

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25X9 The launch site is surrounded by a single security fence, the enclosed area measuring about 2,180 by 1,700 feet. One missile-ready building is present behind the left pad. It is canted outward about 30 degrees and appears to be earth mounded. One large earth-mounded building in the center of the site is apparently connected to each pad by cable conduits. There are two canted buildings inboard of each pad. One of those by the right pad does not appear to be complete. There are two unidentified objects on the left pad and one on the right.

The site support facility includes an administration/housing section, a housing section,

and an unidentified section. These are situated northeast of the launch site on both sides of the access road. The administration/housing section contains eight buildings. The housing section contains nine buildings, five of which appear to be barracks. Just west of the housing section is a clearing that measures 500 by 400 feet. This is probably an athletic/drill field. The unidentified section is just south of the housing section and contains two buildings and a section of road that ends at a small open area.

Near the junction of the access road with the complex main road are two cleared areas. One area contains two large buildings and a T-shaped building; the other has one medium-sized and three small buildings. These areas may be associated with the overall complex rather than directly with Launch Area E.

LAUNCH AREA F

25X1D Launch Area F is situated on the crest of a low hill in a heavily wooded area 13 nm east-northeast of the complex support facility. It was first seen in [REDACTED]

25X1D [REDACTED] and was not there in [REDACTED]

The launch area consists of a Type IID launch site and a site support facility (Figure 9).

25X1D The launch site is in a late stage of construction as of [REDACTED]. No security fence can be identified. All the usual buildings are present and apparently only a little work remains to be done on the right pad. A possible cable conduit joins the center building and both pads. There are three missile-ready buildings, two behind the left pad and one behind the right pad. Two of these are canted to the left about 30 degrees.

25X9 The site support facility is southwest of the launch site. It consists of an administration and housing section and two areas of unidentified activity. The administration and housing section, on the north side of the access road, contains a total of 15 buildings including 6 barracks type and one T-shaped which is probably administrative. One of the areas of unidentified activity is on the south side of the access road across from the administration and housing section. It consists of a small road-served clearing and two buildings. This facility could be a motor pool. The other area of unidentified activity is southwest of the administration and housing section on the same side of the access road. It is on the bank of

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a stream and ground scarring is apparent throughout the area. Two small buildings are

present. The general appearance suggests a borrow pit.

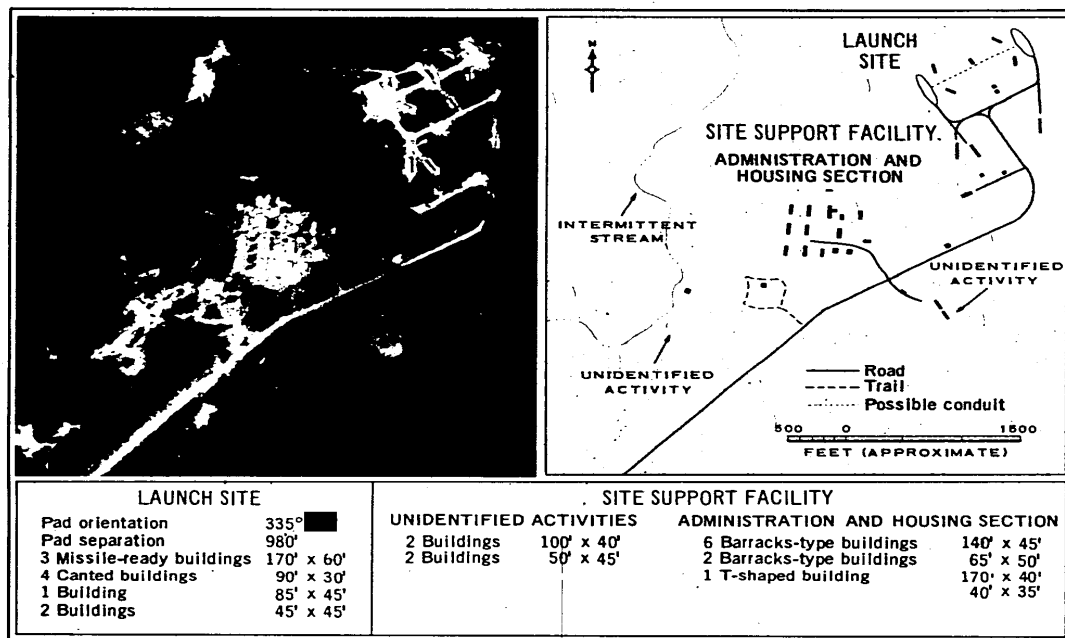


FIGURE 9. LAUNCH AREA F.

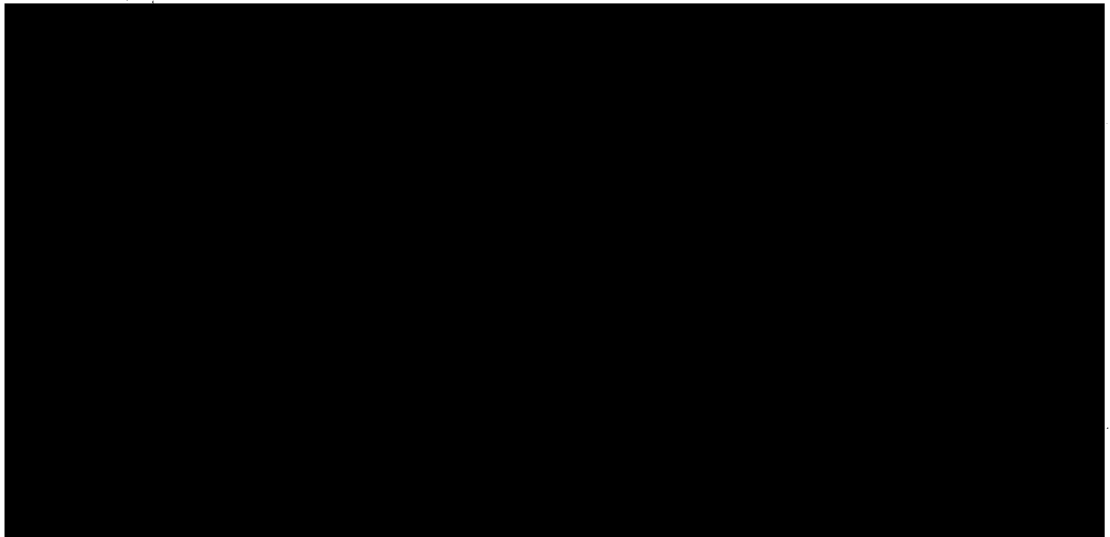
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25X1D

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NPIC. B-41/61, *Launch Area B, ICBM Launch Complex, Yoshkar-Ola, USSR*, Nov 61 (TOP SECRET CHESS RUFF)

MAPS OR CHARTS

USATC. Series 200, Sheet 155-22A, 1st ed, Oct 59, scale 1:200,000 (SECRET)

REQUIREMENT

NPIC. PC 806-63 (partial answer)

NPIC PROJECT

J-368/63 (partial answer)

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